Engineering Information

Flow of Water and Friction

Engineering Information

Velocity							Diameter of			
Feet per Second	3		4 8 8 =		5		6			
	Discharge per Minute in Cubic Feet.									
Feet	Cubic Feet	Feet of Head	Cubic Feet	Feet of Head	Cubic Feet	Feet of Head	Cubic Feet	Feet of Head		
2 2.5 3 3.5 4 4.5 5 5.5 6	5.9 7.3 8.8 10.3 11.8 —	9.7 1.49 1.9 2.6 3.3 —————————————————————————————————	10.5 13.0 15.7 18.3 21.0 —	.55 .12 1.2 1.6 2.2 —	16.4 20.4 24.5 28.6 32.7 — —	.41 .64 .82 1.2 1.7 —	23.6 29.3 35.2 41.2 47.0 53.0	32 .50 .72 1.0 1.3 1.6		
The dis	harged o	FLOV	OF W	ATER A	ND FRIC		high, fo	other		
Velocity Feet per	30:3455	TOMOS	30.7	CTW 10	Zb18, 1	d.c302	Diam	eter o		
Second	89 0356	15 18 33	1	8	2	18198	2	4		
lins.	Cu. A	Disc	harge pe	r Minute	in Cubic	Feet.	Cost	10.11		
Feet	Cubic Feet	Feet of Head	Cubic Feet	Feet of Head	Cubic Feet	Feet of Head	Cubic Feet	Feet of Head		
2 2.5 3 3.5 4 4.5 5 5.5 6	148 184 220 258 295 331 368 405	.11 .17 .25 .34 .44 .56 .70	212 264 317 372 425 475 530 580	.025 .147 .21 .29 .36 .46 .58	298 360 430 505 575 650 720 790	.075 .117 .17 .23 .31 .39 .48 .59	377 470 565 680 755 845 940 1030 1130	0.65 .109 .15 .20 .27 .34 .41 .50		

Engineering Information

,		тей	055 II		n Inches	N PIPI	ES HOW		
Rof	6,000	plate7	Mathia	8	()	MAGE 9) There	10	10.0
Nijed	Irtskeri	and lo	oss of H	ead in F	eet, per	100 Fee	t long.	Prishi	Mon
	Feet	of the	Feet	la termina	Feet	444045	Feet		Feet
Cubic	of	Cubic	of	Cubic	of	Cubic	of	Cubic	of
Feet	Head	Feet	Head	Feet	Head	Feet	Head	Feet	Head
32	.27	42	.23	53	.19	65	.18	94	.15
40	.43	52	36	66	.30	82	.27	117	.23
48	.61	63	.51	79	.44	98	.39	141	.33
56	No.70	73	.71	93	.61	115	.52	165	.45
64	9	86	.92	106	.79	131	.69	188	.59
72	1.2	94	1.2	119	1.01	147	.87	212	.75
8/8/2	1828	1.40	81914	132	1.2	164	1.1	325	.96
1.578	5	1.50	9 -	478	2.17	2.040	+	Ris-	140
716	1998	_	9473	12000	-70	1	-346	M	116
13/4	1.0	LC	OSS IN	CAST		(Conto	d.)	3014	130
1.3/4	4375	1.71	OSS IN	CAST Pipes. I	n Inches	13.636	393	731	182
1.3/4	1.0	L (OSS IN	CAST	n Inches	13.636	.395 .455	3014	182
3/4 S\I ₂ 3/4 2.1/2 8/3	4375 4921 72	30	1.1674	CAST Pipes. I	n Inches	13.636	3938	42	122 ·
3.4 S\12 3.6 2.1/2 8\3 2.3/4	27 (Sept. a. a. Feet.	30 nd loss	of Hea	CAST Pipes. I 33	n Inches	36	3938	42	SY
SND SND SND 2.1/2 8.3/4 Cubic	27 (SQL) a Feet of	30 nd loss Cubic	of Hea	CAST Pipes. In 33	eet, per	36	et long	42	182 - 182 -
3.4 S\12 3.6 2.1/2 8\3 2.3/4	27 (Sept. a. a. Feet.	30 nd loss	of Hea	CAST Pipes. I 33	eet, per	36 100 Fe	eet long	42	SYL SYL
SND SND SND 2.1/2 8.3/4 Cubic	27 (SQL) a Feet of	30 nd loss Cubic	of Hea	CAST Pipes. In 33	eet, per	36 100 Fe	eet long Feet of	42 Cubic	Feet a of
SVI2	27 a Feet of Head	30 nd loss Cubic Feet	Feet of Head	CAST Pipes. In 33 and in For Cubic Feet	reet, per Feet of Head	360 100 Fe	Feet of Head	42 Cubic Feet	Feet of Head
Cubic Feet	a Feet of Head	30 nd loss Cubic Feet 590	Feet of Head	CAST Pipes. I 33 ad in Fe Cubic Feet 710	reet, per Feet of Head	36 100 Fe Cubic Feet 650	Feet long Feet of Head	42 Cubic Feet 1150	Feet of Head
Cubic Feet 478 595 715 835	27 See a Feet of Head .055 .088 .13 .18	30 nd loss Cubic Feet 590 730	Feet of Head .052 .085	CAST Pipes. II 33 ad in Fe Cubic Feet 710 890	Feet of Head .049 .076	36 100 Fe Cubic Feet 650 1000	Feet long Feet of Head .04 .07	42 Cubic Feet 1150 1440	Feet of Head
Cubic Feet 478 595 715 835 955	27 a Feet of Head .055 .088 .13 .18 .23	30 nd loss Cubic Feet 590 730 880 1030 1180	Feet of Head .052 .085 .12 .16 .22	CAST Pipes. I 33 ad in Fe Cubic Feet 710 890 1070 1250 1420	Feet of Head .049 .076 .108 .15 .20	360 100 Fe Cubic Feet 650 1000 1270	Feet long Feet of Head .04 .07 .10	42 Cubic Feet 1150 1440 1730	Feet of Head .038 0.56 .081
Cubic Feet 478 595 715 835 955 1070	27 Seet of Head .055 .088 .13 .18 .23 .30	30 nd loss Cubic Feet 590 730 880 1030 1180 1320	Feet of Head .052 .085 .12 .16 .22 .28	CAST Pipes. I 33 ad in Fe Cubic Feet 710 890 1070 1250 1420 1600	Feet of Head .049 .076 .108 .15 .20 .25	360 100 Fe Cubic Feet 650 1000 1270 1480	Feet long Head 04 .07 .10 .14	42 Cubic Feet 1150 1440 1730 2020	Feet of Head .038 0.56 .081 .111
Cubic Feet 478 595 715 835 955 1070 1190	27 Aea a Feet of Head .055 .088 .13 .18 .23 .30 .37	30 nd loss Cubic Feet 590 730 880 1030 1180 1320 1470	Feet of Head .052 .085 .12 .16 .22 .28 .34	CAST Pipes. In 33 and in Fe Cubic Feet 710 890 1070 1250 1420 1600 1780	Feet of Head .049 .076 .108 .15 .20 .25 .30	36 100 Fe Cubic Feet 650 1000 1270 1480 1700 1900 2120	Feet of Head .04 .07 .10 .14 .17	Cubic Feet 1150 1440 1730 2020 2300	Feet of Head .038 0.56 .081 .111 .14
Cubic Feet 478 595 715 835 955 1070	27 Seet of Head .055 .088 .13 .18 .23 .30	30 nd loss Cubic Feet 590 730 880 1030 1180 1320	Feet of Head .052 .085 .12 .16 .22 .28	CAST Pipes. I 33 ad in Fe Cubic Feet 710 890 1070 1250 1420 1600	Feet of Head .049 .076 .108 .15 .20 .25	36 100 Fe Cubic Feet 650 1000 1270 1480 1700 1900	Feet long Feet long Head .04 .07 .10 .14 .17 .22	42 Cubic Feet 1150 1440 1730 2020 2300 2590	Feet of Head .038 .081 .111 .14 .18

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